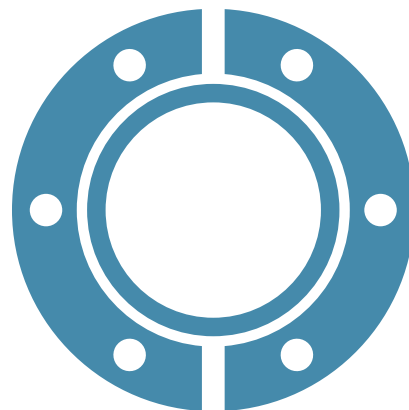




VACUUM CF COMPONENTS

- Flanges and ConnectorsF 08

The CF series flanges use the well proven captured copper gasket sealing principle which is now almost universally used in the UHV industry. The seal - an OFHC* copper gasket - is held between the knife edges of a pair of CF flanges. On tightening the retaining bolts, the knife edges cut into the gasket and force the copper both axially as well as radially outwards to the flange. The material is thus enclosed and cannot flow, even at high bakeout temperatures. This sealing method has a maximum bakeout temperature of 450°C and is suitable for vacuum applications to 10^{-12} mbar.

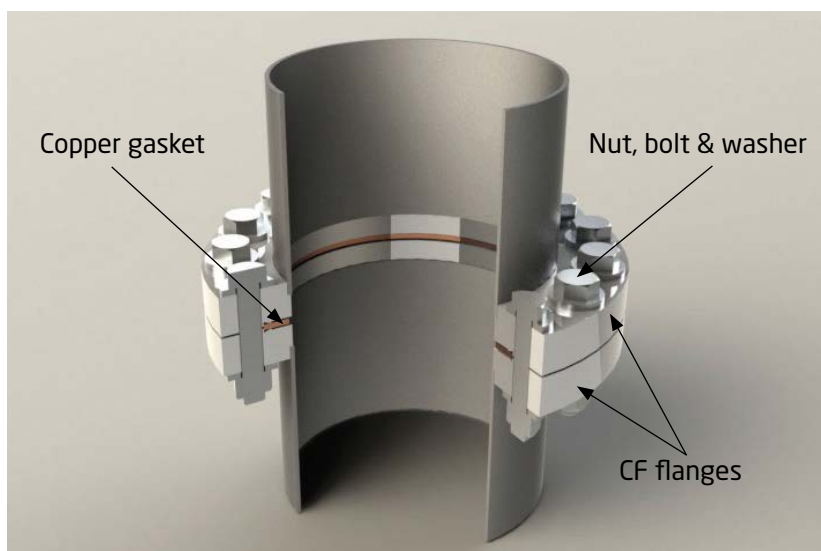
All CF flanges are manufactured from specially selected, high quality Stainless Steel - 304L** (1.4306) or the higher specification 316LN (1.4429). These materials being the accepted standards throughout the UHV vacuum industry. Both Stainless Steels are low carbon varieties designed to avoid inter-granular corrosion after welding. 316LN has the additional advantages of a lower magnetic permeability, harder knife edge, and high temperature H₂ degassing at up to 950°C. Full traceability is available on all materials used.

Protective mouldings and suitable packing ensures that the flanges reach the customer in perfect condition for use on UHV equipment. The product range includes blank, bored and rotatable flanges in all of the internationally approved sizes. Other sizes and special flanges are available to order.

All given dimensions are nominal in mm.

*OFHC: Oxygen-free high conductivity.

**316L (1.4404) available on request.



Flanges and Connectors

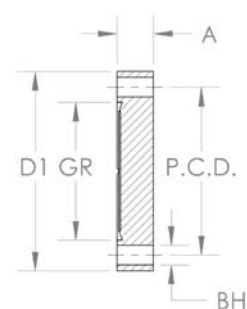
CF FIXED BLANK FLANGE - STAINLESS STEEL

CLEAR BOLT HOLES							
P/N	DN	A	D1	GR	PCD	BH	BOLT HOLES
F16	16	7.6	34	21	27	4.3	6
F35	35	12.7	70	48	58	6.7	6
F63	63	17.4	114	82	92	8.3	8
F100	100	19.9	152	120	130	8.3	16
F150	150	22.3	203	171	181	8.3	20
F200	200	24.6	254	222	231	8.3	24
F250	250	27.3	304	270	283	10.3	32
F272	250	24.6	304	273	284	8.4	32

Available in 316L and 316LN on request.

TAPPED BOLT HOLES	
P/N	THREAD DIA
F16T	M4
F35T	M6
F63T	M8
F100T	M8
F150T	M8
F200T	M8
F250T	M10
F272T	M8

Imperial bolt holes are available on request.



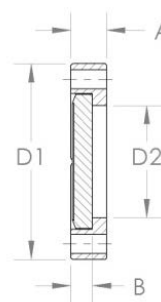
CF ROTATABLE BLANK FLANGE - STAINLESS STEEL

CLEAR BOLT HOLES						
P/N	DN	A	B	D1	D2	BOLT HOLES
F16R	16	7.6	5.85	34	19.3	6
F35R	35	12.7	7.05	70	41.4	6
F63R	63	17.4	12.15	114	68.0	8
F100R	100	19.9	13.75	152	104.9	16
F150R	150	22.3	15.25	203	155.7	20
F200R	200	24.6	16.55	254	206.4	24
F250R	250	27.3	19.05	304	259.5	32
F272R	250	24.6	18.00	304	250.7	32

Available in 316L and 316LN on request.

TAPPED BOLT HOLES	
P/N	THREAD DIA
F16RT	M4
F35RT	M6
F63RT	M8
F100RT	M8
F150RT	M8
F200RT	M8
F250RT	M10
F272RT	M8

Imperial bolt holes are available on request.



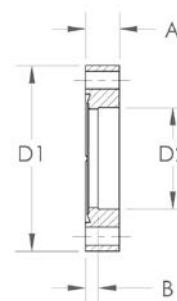
CF FIXED BORED FLANGE - STAINLESS STEEL

CLEAR BOLT HOLES						
P/N	DN	A	B	D1	D2	BOLT HOLES
F16B7	16	7.7	-	34	6.4	6
F16B12	16	7.7	-	34	12.7	6
F16B14	16	7.7	4.8	34	14.4	6
F16B19	16	7.7	4.8	34	19.1	6
F35B14	35	12.7	4.8	70	14.4	6
F35B25	35	12.7	4.8	70	25.5	6
F35B38	35	12.7	4.8	70	38.2	6
F35B41	35	12.7	4.8	70	41.3	6
F63B51	63	17.4	7.9	114	51.2	8
F63B63	63	17.4	7.9	114	63.6	8
F100B	100	19.9	9.5	152	101.9	16
F150B	150	22.2	9.5	203	152.6	20
F200B	200	24.6	9.5	254	203.5	24
F250B	250	27.3	9.5	304	254.4	32
F272B	250	24.6	9.5	304	254.4	32

Other bore sizes, 316L and 316LN are available on request.

TAPPED BOLT HOLES	
P/N	THREAD DIA
F16B7T	M4
F16B12T	M4
F16B14T	M4
F16B19T	M4
F35B14T	M6
F35B25T	M6
F35B38T	M6
F35B41T	M6
F63B51T	M8
F63B63T	M8
F100BT	M8
F150BT	M8
F200BT	M8
F250BT	M10
F272BT	M8

Imperial bolt holes are available on request.



CF ROTATABLE BORED FLANGE - STAINLESS STEEL

CLEAR BOLT HOLES							TAPPED BOLT HOLES	
P/N	DN	A	B	D1	D2	BOLT HOLES	P/N	THREAD DIA
F16R7	16	7.6	-	34	6.4	6	F16R7T	M4
F16R12	16	7.6	-	34	12.7	6	F16R12T	M4
F16R14	16	7.6	4.8	34	14.4	6	F16R14T	M4
F16R19	16	7.6	4.25	34	19.1	6	F16R19T	M4
F35R14	35	12.7	4.8	70	14.4	6	F35R14T	M6
F35R25	35	12.7	4.8	70	25.5	6	F35R25T	M6
F35R38	35	12.7	4.8	70	38.2	6	F35R38T	M6
F35R41	35	12.7	4.8	70	41.3	6	F35R41T	M6
F63R51	63	17.4	7.9	114	51.2	8	F63R51T	M8
F63R63	63	17.4	7.9	114	63.6	8	F63R63T	M8
F100RB	100	19.9	8.95	152	101.9	16	F100RBT	M8
F150RB	150	22.2	8.95	203	152.6	20	F150RBT	M8
F200RB	200	24.6	8.95	254	203.5	24	F200RBT	M8
F250RB	250	27.3	10.1	304	254.4	32	F250RBT	M10
F272RB	250	24.6	11.35	304	254.4	32	F272RBT	M8

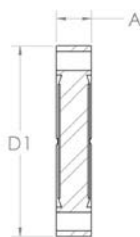
Other bore sizes, 316L and 316LN are available on request.

Imperial bolt holes are available on request.



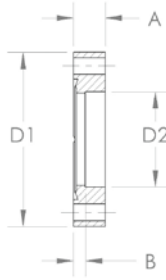
CF DOUBLE SIDED BLANK FLANGE - STAINLESS STEEL

P/N	DN	A	D1
F16DB	16	7.6	34
F35DB	35	12.7	70
F63DB	63	17.4	114
F100DB	100	19.8	152
F150DB	150	22.2	203
F200DB	200	24.6	254



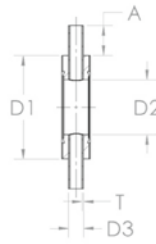
CF BORED FLANGE - STAINLESS STEEL

P/N	DN	A	D1	D2
F16D14	16	7.6	34	14
F35D38	35	12.7	70	38
F63D63	63	17.4	114	63
F100D100	100	19.8	152	100
F150D150	150	22.2	203	150
F200D200	200	24.6	254	200



CF DOUBLE SIDED FLANGE WITH RADIAL PORTS - STAINLESS STEEL

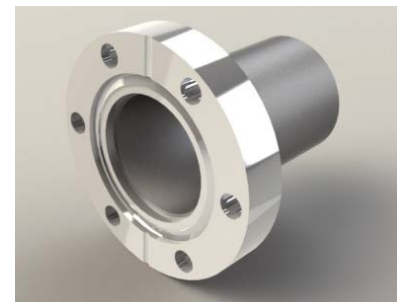
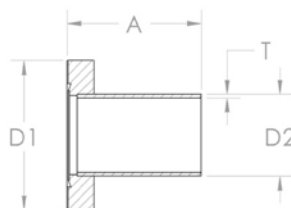
P/N	DN	A	D1	D2	D3	T	No. OF PORTS	PORT TERMINATION
F35DR1	35	20	70	37	10	1	1	Plain tube
F35DR2	35	20	70	37	10	1	2 (180°)	Plain tube
F35DR1KF	35	20	70	37	10	1	1	KF10
F35DR2KF	35	20	70	37	10	1	2 (180°)	KF10
F35DR1CF	35	20	70	37	10	1	1	F16
F35DR2CF	35	20	70	37	10	1	2 (180°)	F16



Baffle plates, accessories and other sizes are available on request.

CF TUBULATION FIXED - STAINLESS STEEL

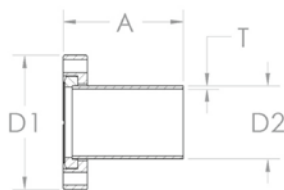
P/N	DN	D1	A	D2	T
TU16	16	34	38	19	1.6
TU35	35	70	63	38	1.6
TU63	63	114	105	64	1.6
TU100	100	152	135	102	1.6
TU150	150	203	167	152	2.0
TU200	200	254	167	203	2.0



Tapped flanges, 316L and 316LN are available on request.

CF TUBULATION ROTATABLE - STAINLESS STEEL

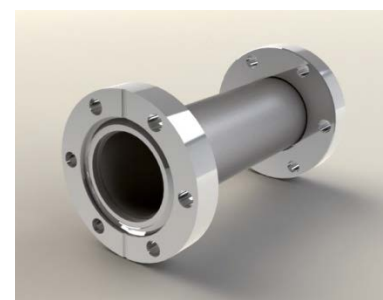
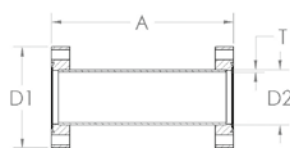
P/N	DN	D1	A	D2	T
TU16R	16	34	38	19	1.6
TU35R	35	70	63	38	1.6
TU63R	63	114	105	64	1.6
TU100R	100	152	135	102	1.6
TU150R	150	203	167	152	2.0
TU200R	200	254	167	203	2.0



Tapped flanges, 316L and 316LN are available on request.

CF STRAIGHT CONNECTOR - FIXED - STAINLESS STEEL

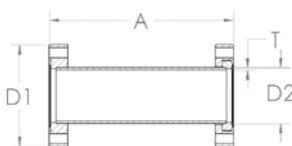
P/N	DN	D1	A	D2	T
SC16	16	34	76	19	1.6
SC35	35	70	126	38	1.6
SC63	63	114	210	64	1.6
SC100	100	152	270	102	1.6
SC150	150	203	334	152	2.0



Bolt holes in-line, straddled are available on request.

CF STRAIGHT CONNECTOR ROTATABLE - 304L STAINLESS STEEL

P/N	DN	D1	A	D2	T
SC16R	16	34	76	19	1.6
SC35R	35	70	126	38	1.6
SC63R	63	114	210	64	1.6
SC100R	100	152	270	102	1.6
SC150R	150	203	334	152	2.0



Special lengths and diameters are available on request.



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